

SECTION 01325

WATER DISCHARGE REQUIREMENTS

LANL MASTER CONSTRUCTION SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., an operation that does not apply). To seek a variance from applicable requirements, contact the LANL Engineering Standards Civil POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 / ML-4 work. For ML-1 / ML-2, additional requirements and QA reviews are required.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Requirements of Contractor and LANL Construction Inspector when there is a planned or accidental discharge of water, including those not covered by a NPDES permit, Ground Water Discharge Plan, or approved Notice of Intent (NOI).

1.2 DEFINITIONS

- A. Discharge: Release of water to environment or sanitary sewer system due to an accidental spill or planned construction activity, e.g., flushing, piping disinfection, chemical water treatment of piping systems, hydrostatic piping tests, etc.
- B. Best Management Practices (BMPs): Schedules of activities, prohibition of practices, maintenance procedures, and other management practices to prevent or reduce pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. Physical practices to control facility site runoff can be, but are not limited to silt fences, graveled construction area entry/exit points, straw bales, dikes, berms, wattles, ground cover, reduced discharge rates, armoring, or other such methods emplaced to eliminate erosion or transport by water of soil or other contaminants.

1.3 CONTRACTOR REQUIREMENTS

- A. Discharges to environment:
 - 1. Discharges shall not cause or have the reasonable potential to cause or contribute to a violation of a water quality standard.

2. Employ Best Management Practices (BMPs) to prevent erosion from discharge of water.
3. Chlorinated water used for disinfection shall be dechlorinated with a neutralizing agent per Section 15141 prior to discharge. If discharge is not to a watercourse (e.g., flat ground), then total chlorine concentration shall be reduced to less than 1 ppm (part per million) -- *typically the same as that in the Safe Drinking Water Act.*
4. Discharges to a watercourse shall have a total chlorine concentration not greater than 0.011 mg/L (11 parts per billion). *(This value is based on 1999 changes in the New Mexico stream standards that dropped chlorine limit from 1 ppm to 11 ppb).*
5. For discharges of less than 5000 gallons, notify LANL Construction Inspector at least 48 hours (2 working days) in advance of planned discharge.
6. For discharges of 5000 gallons or more, notify LANL Construction Inspector at least 4 working days in advance of planned discharge.

B. Sanitary Sewer Discharges:

1. Notify LANL Construction Inspector prior to any discharge.
2. Volumes greater than 1000 gallons shall not be discharged into the sanitary sewer systems without special approval by Sanitary Wastewater System (SWWS) Operations (5-7855) obtained via LANL Construction Inspector.
3. Properly characterize discharges through LANL waste profile form (WPF) process <http://enterprise.lanl.gov/forms/1346.pdf> and meet the SWWS Plant Waste Acceptance Criteria (WAC), especially Ch 19.
http://swo.lanl.gov/FMU-64_Controlled_Documents/Waste%20Acceptance%20Criteria.PDF/PLAN-WASTEMGMT-002,R.3.8%20LANL%20Waste%20Acceptance%20Criteria.pdf
 - a. WAC limits for total chlorine concentration are 3 mg/L (3 ppm). De-chlorinate water used for disinfection in excess of 20 gallons with neutralizing agent per Section 15141 prior to discharge.

C. Notify LANL Construction Inspector immediately in the event of any accidental discharge.

1.4 LANL CONSTRUCTION INSPECTOR REQUIREMENTS

A. Discharges to the environment:

1. Keep a written record of each discharge by project. Submit records to RRES-WQH each fiscal year by September 15th, or at closeout of project if sooner.

2. For discharge of less than 1000 gallons, notify RRES-WQH (5-0453) 24 hours (1 working day) prior to discharge.
3. For discharges of 1000 to 5000 gallons, notify RRES-WQH (5-0453) at least 48 hours (2 working days) in advance for approval of planned discharge.
4. For discharge of 5000 gallons or more, notify RRES-WQH (5-0453) at least 72 hours (3 working days) in advance for approval of planned discharge. WGH will coordinate RRES-ECO review for potential impacts to critical habitat and Threatened and Endangered Species.
5. If project is not covered under a NPDES general permit for storm water discharges for construction activities in Region 6, complete and return attached form "General Discharge Record" to RRES-WQH. (Attachment 1)

B. Sanitary Sewer:

1. Assist Contractor with characterizing discharges using LANL Waste Profile Form (WPF) process and meeting the SWWS Plant Waste Acceptance Criteria (WAC) described in 1.3 above.
2. Notify SWWS Plant Supervisor (5-7855) at least 48 hours (2 working days) in advance for approval of planned discharge into sanitary waste water system.

C. Notify RRES-WQH (5-0453) immediately in the event of any accidental discharge.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

END OF SECTION

Do not delete the following reference information:

FOR LANL USE ONLY

This project specification is based on LANL Master Construction Specification, Rev. 3, dated April 16, 2003.

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GENERAL DISCHARGE RECORD

LOCATION/ TA: _____	BLDG: _____
FIRE HYDRANT # or PIPE: _____	
FMU/USER GROUP: _____	CONTACT PERSON: _____
PHONE: _____	PAGER: _____
PERSON CONDUCTING FIRE PROTECTION ACTIVITY: _____	
DATE and TIME of DISCHARGE: _____ / _____ <input type="checkbox"/> AM <input type="checkbox"/> PM	
DURATION of DISCHARGE: _____ / _____	
RRES-WQH CONTACT: _____	
DESCRIPTION of DISCHARGE: _____ _____ _____	
CANYON AFFECTED: _____	
SAMPLES TAKEN: YES: <input type="checkbox"/> NO: <input type="checkbox"/>	
COMMENTS: _____ _____ _____	
REVIEWED BY: _____	
<i>Printed Name / RRES-WQH</i>	<i>Signature</i> <i>Date</i>

Revised 04/16/03